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CONFIDENTIAL DOCUMENT NO. NO CHANGE IN CLASS. 12 April 1961 CLASS. CHANGED TO: TS S NEXT REVIEW DATE: NEXT REVIEW DATE:	
MEMORANDUM FOR: THE RECORDAUTH: HR 70-2 DAT SUBJECT: Meeting with	25 X 1
1. Time & Place of Meeting: The meeting was held on 24 March 1961 at	05)//
2. Attendance:	25X1 25X1
3. Purpose of Meeting: Discuss the F.M. Radar Detection project.	
what they have accomplished on the program to date. Showed a block diagram of the system and went through it, explaining the portions that are now built. has completed the frequency translator, the power supply, the sawtooth generator, pleted the frequency translator, which weltage circuits for the backward wave	25X1 225X1
the active filters, and the high voltage the B.W.O. tube, although oscillator. not yet received the B.W.O. tube, although oscillator. delivery is expected daily. (nearly completed), spectrum analysis, and the problems of antenna, display, and fast scanning. integrated the components they have finished and determined that the system is compatible.	25X1 25X1 25X1
discussed the scanning problem. It was pointed out that any automatic scanning does away with the operator experience	25 X 1
may have to be used to allow lot that the proposed the idea of a frequency than possible by manual scanning. proposed the idea of a frequency than possible by manual scanning. proposed the idea of a frequency than possible by manual scanning. proposed the idea of a frequency scanner, that is, an azimuth resolution system instead of a range resolution system. Such a system would use the phase difference between the beat system. Such a system would use the phase difference between the beat	25X1
receiver signals and the signal from the transmitter of local conditions and felt that this wouldn't work because of the poor s/n conditions and the front surface reflections. It was concluded that both groups would continue to study the scanning problem.	25X1
	25X1
moving window approach, that is, to cover the wall with an absorbing cross with windows cut in it. Then it would be possible to illuminate a particular area and not be worried by other interferences. The difficulty is the time involved in setting up and checking the areas.	

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size which would give the same result and yet not require the use of	25 X 1
absorbing cloth.	
suggested a system using four transmitters and four	25X1
separate receivers, range-gated, or the use of a parasetic array, to see if either would focus the beam properly. went through some of the antenna calculations on the systems. The four transmitter-receiver systems looked promising enough to warrant completing the mathematical	25 X 1
calculations and some experimental work. Iid not want to get into the antenna problem but they have to if the design of the various equipment pieces are to be compatible.	25 X 1
stated that they would "kick around" the antenna and scanning problems and attempt to have some sort of an answer for the next meeting, scheduled for sometime near the end of April.	25X1
had been very thorough in their approach and were doing an excellent job. microwave group was as competent and current as any group they could assemble or knew of.	25X1 25X1
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